



Missouri Department of Health and Senior Services

P.O. Box 570, Jefferson City, MO 65102-0570 Phone: 573-751-6400 FAX: 573-751-6010
RELAY MISSOURI for Hearing and Speech Impaired 1-800-735-2966 VOICE 1-800-735-2466

Jane Drummond
Director



Matt Blunt
Governor

INFORMATIONAL RELEASE NUMBER S1-08

TO: Local Public Health Agencies and other local Onsite Sewage Agencies
Environmental Public Health Specialist V's

FROM: Daryel Brock, Chief
Bureau of Environmental Regulation and Licensure

SUBJECT: Innovative System Protocol for Zoeller Fusion Model ZF-450

DATE: June 9, 2008

CONTACT: James Gaughan, Environmental Engineer
jim.gaughan@dhss.mo.gov
(573) 751-6095

The Onsite Sewage Program has reviewed and accepted a proposed innovative system protocol for the Zoeller Fusion Model ZF-450 aerobic treatment unit (ATU). The ZF-450 unit has a treatment capacity of 450 gallons per day, which is sufficient for treating the wastewater from a three bedroom house, yet is less than the 500-gallon per day minimum required by 19 CSR 20-3.060(4)(E)3. However, the ZF-450 unit as well as the ZF-600 and ZF-800 units have been certified by NSF International as meeting the requirements established by NSF/ANSI Standard 40 for Class I effluent.

Under the proposed protocol, Zoeller would monitor the first ten (10) units installed in Missouri and submit copies of maintenance and service reports to the Missouri Department of Health and Senior Services for a period of two (2) years. These reports indicate system performance, pH, ammonia, transparency of the effluent, nitrate and nitrite, and other physical parameters.

DHSS does not endorse any brand or specific product model. However, the NSF certified Zoeller ZF-450 unit may be approved by local administrative authorities as part of an onsite wastewater treatment system when the proposed system design as a whole meets the requirements (with the exception of minimum treatment capacity) of the state minimum standards, or local standards that can be more stringent. Installation and startup instructions provided by the ATU manufacturer must be followed. Innovative approval may be discontinued at any time, if warranted by subsequent field experience with installed ATU models.

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